## HISTORIC AMERICAN ENGINEERING RECORD

## INDEX TO PHOTOGRAPHS

Portland General Electric Company:
Station "L"

1841 S.E. Water Street
Portland
Multnomah County
Oregon

HAER No. OR-12

Strode Eckert Photographic Richard H. Strode and Peter M. Eckert, Photographers April 1988

- OR-12-1 GENERAL SITE, LOOKING NORTHEAST FROM THE ROSS ISLAND BRIDGE
- OR-12-2 GENERAL SITE, LOOKING NORTH FROM THE ROSS ISLAND BRIDGE
- OR-12-3 STATION "L" SITE, LOOKING NORTHEAST FROM THE ROSS ISLAND BRIDGE
- OR-12-4 STATION "L" SITE, LOOKING NORTHEAST, MARQUAM BRIDGE TO THE LEFT
- OR-12-5 VIEW OF STATION "L" FROM WEST BANK OF THE WILLAMETTE RIVER, SCREEN HOUSES AND TURBINE BUILDINGS IN FOREGROUND
- OR-12-6 VIEW OF STATION "L" BENEATH THE MARQUAM BRIDGE, SCREEN HOUSES AND TURBINE BUILDINGS IN FOREGROUND
- OR-12-7 STATION "L" FROM THE WEST BANK OF THE WILLAMETTE RIVER LOOKING EAST, SCREEN HOUSES AND TURBINE BUILDINGS IN FOREGROUND
- OR-12-8 STATION "L" FROM SOUTHEAST DIVISION STREET LOOKING NORTHWEST, LINCOLN SUBSTATION IN FOREGROUND
- OR-12-9 STATION "L", LOOKING NORTHWEST FROM SOUTHEAST DIVISION, LINCOLN SUBSTATION IN FOREGROUND
- OR-12-10 BOILER #16 (BUILDING L8) TO LEFT, L.P. AND H.P. BOILER ROOMS (BUILDINGS L4 AND L2) TO RIGHT, AND STEPHENS SUBSTATION (BUILDING L6) IN BACKGROUND, FROM THE ROOF OF THE POWERHOUSE EXTENSION (BUILDING L5)
- OR-12-11 GENERAL VIEW OF STATION "L", LOOKING SOUTHWEST, BUILDINGS FROM LEFT TO RIGHT: LINCOLN SUBSTATION (BUILDING L3), EQUIPMENT BUILDING (BUILDING K), H.P. BOILER ROOM (BUILDING L4), L.P. BOILER ROOM (BUILDING L2), BOILER #16 (BUILDING L8), POWERHOUSE EXTENSION (BUILDING L5), MACHINE SHOP (BUILDING L7)

Portland General Electric Company: Station "L" HAER No. OR-12 (Page 2) Index to Photographs

- OR-12-12 VIEW OF THE NORTH END, STATION "L", FROM THE ROOF OF POWERHOUSE EXTENSION (BUILDING L5), WELDING SHOP (BUILDING F) IN FOREGROUND, PEPCO BUILDING (BUILDING A) IN BACKGROUND
- OR-12-13 VIEW OF SOUTH END, STATION "L", FROM THE ROOF OF POWERHOUSE EXTENSION (BUILDING L5), STEPHEN'S SUBSTATION (BUILDING L6) IN UPPER LEFT, BOILER #16 (BUILDING L8) IN CENTER, H.P. AND L.P BOILER ROOMS (BUILDINGS L2 AND L4) IN UPPER RIGHT
- OR-12-14 Photocopy of photograph (from Station "L" office files, Portland, Oregon)
  Photographer unknown, c.1930
  HISTORIC VIEW OF STEPHENS SUBSTATION
- OR-12-15 Photocopy of photograph (from Station "L" office files, Portland, Oregon)
  Photographer unknown, 1936-37
  CONSTRUCTION OF BOILER #16
- OR-12-16 Photocopy of photograph (from Station "L" office files, Portland, Oregon)
  Photographer unknown, 1936-37
  INSTALLING THE FURNACE OF BOILER #16, 1936-37
- OR-12-17 Photocopy of photograph (from Station "L" office files, Portland, Oregon)
  Photographer unknown, 1936-37
  INSTALLATION OF BOILER #16, 1936-37
- OR-12-18 Photocopy of photograph (from Station "L" office files, Portland, Oregon)
  Photographer unknown, 1930
  CONSTRUCTION OF THE POWERHOUSE EXTENSION, 1930
- OR-12-19 Photocopy of photograph (from Station "L" office files, Portland, Oregon)
  Photographer unknown, 1930
  LAYING THE BASEMENT FLOOR FOR THE POWERHOUSE EXTENSION, 1930
- OR-12-20 Photocopy of photograph (from Station "L" office files, Portland, Oregon)
  Photographer unknown, c.1930
  TURBINE WHEEL, NOTE WORN BUCKETS
- OR-12-21 Photocopy of photograph (from Station "L" office files, Portland, Oregon)
  Photographer unknown, c.1930
  WORN TURBINE WHEEL

Portland General Electric Company: Station "L" HAER No. OR-12 (Page 3) Index to Photographs

- OR-12-22 Photocopy of photograph (from Station "L" office files, Portland, Oregon)
  Photographer unknown, c.1930
  WORKERS RAKING SAWDUST ONTO THE CONVEYORS, SAWDUST TO BE TRANSPORTED TO BOILER FURNACES
- OR-12-23 Photocopy of photograph (from Station "L" office files, Portland, Oregon)
  Photographer unknown, c.1930
  BUCKET USED TO UNLOAD SAWDUST FROM BARGES ONTO CONVEYORS, CONVEYORS LED TO EITHER THE SAWDUST PILE OR DIRECTLY TO THE BOILER FURNACES
- OR-12-24 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon) Portland General Electric in house drawing, c.1960 GENERAL SITE PLAN OF STATION "L"
- OR-12-25 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon)
  Portland General Electric in house drawing, c.1939
  GENERAL ARRANGEMENT OF THE HISTORIC SITE, SHOWS THE LOCATION OF THE TURBINES AND BOILERS WITHIN THE BUILDINGS OF STATION "L"
- OR-12-26 Photocopy of diagram (from Bernhardt Skrotzki's <u>Electric Generation--Steam Stations</u>, New York, New York, 1956, figure I-1)
  THE GENERAL WAY IN WHICH ELECTRICITY IS CREATED THROUGH THE STEAM GENERATION PROCESS
- OR-12-27 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon)
  Portland General Electric proposal to city/state, 10/15/1929
  FOUNDATION AND LOCATION OF THE STATION SCREEN HOUSE AND A LOOK AT THE TYPICAL DREDGING OF THE RIVER BED WHICH TOOK PLACE ON A PERIODIC BASIS AT STATION "L"
- OR-12-28 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon)
  Link-Belt Company, contractors, 1920
  THE SCREENING SYSTEM OF STATION "L", WATER FLOWS THROUGH THE SCREENS AND IS CARRIED TO THE PUMPS BY WATER BUCKETS
- OR-12-29 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon)
  Contractor/draftsman unknown, c.1911
  FRONT ELEVATION AND LONGITUDINAL SECTION OF THE ORIGINAL EIGHT BOILERS LOCATED IN THE L.P. BOILER ROOM [BUILDING L2]

Portland General Electric Company: Station "L" HAER No. OR-12 (Page 4) Index to Photographs

- OR-12-30 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon)

  Portland General Electric in house drawing, c.1960

  PLAN OF THE L.P. BOILER ROOM [BUILDING L2] WHICH HOUSED THE ORIGINAL EIGHT BOILERS OF STATION "L"
- OR-12-31 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon)
  Contractor/draftsman unknown, 1930
  PLAN OF THE CONVEYORS WHICH WERE USED TO TRANSPORT HOGFUEL TO THE FURNACES OF THE L.P. BOILERS [BUILDING L2] AND TO THE FURNACE OF BOILER #13 [BUILDING L4]
- OR-12-32 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon)
  Portland Iron Works, contractor, 1927
  SECTION #1 OF CONVEYOR WHICH WAS INSTALLED TO SERVICE BOILER FURNACES
- OR-12-33 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon) Portland Iron Works, contractor, 1927 SECTION #2 OF CONVEYOR WHICH WAS INSTALLED TO SERVICE BOILER FURNACES
- OR-12-34 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon) Portland Iron Works, contractor, 1927 SECTION #3 OF CONVEYOR WHICH WAS INSTALLED TO SERVICE BOILER FURNACES
- OR-12-35 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon)
  Portland Iron Works, contractor, 1927
  SECTION #4,7 OF CONVEYOR WHICH WAS INSTALLED TO SERVICE BOILER FURNACES
- OR-12-36 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon) Portland Iron Works, contractor, 1927 SECTION #6 OF CONVEYOR WHICH WAS INSTALLED TO SERVICE BOILER FURNACES
- OR-12-37 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon) Portland Iron Works, contractor, 1927 SECTION #8 OF CONVEYOR WHICH WAS INSTALLED TO SERVICE BOILER FURNACES

Portland General Electric Company: Station "L" HAER No. OR-12 (Page 5)
Index to Photographs

- OR-12-38 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon) Portland Iron Works, contractor, 1927 SECTION #9 OF CONVEYOR WHICH WAS INSTALLED TO SERVICE BOILER FURNACES
- OR-12-39 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon)
  Portland General Electric in house drawing, 5/12/1927
  SECTION (TOP) AND ELEVATION (BOTTOM) OF BOILER #9 WHICH IS LOCATED IN THE H.P. BOILER ROOM [BUILDING L4], DIAGRAM OF THE GENERAL LAYOUT AND STEAM PIPING OF THE BOILER
- OR-12-40 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon)
  Portland General Electric in house drawing, 12/6/1927
  ELEVATION (TOP), SECTION (BOTTOM LEFT) AND PLAN (BOTTOM RIGHT) OF THE STEAM PIPING LEADING TO BOILER #13
  [BUILDING L4]
- OR-12-41 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon) Portland General Electric in house drawing, 6/28/1928 PLAN (TOP) AND ELEVATION (BOTTOM) OF BOILER #13 [BUILDING L4], GENERAL LAYOUT OF THE STEAM PIPING SYSTEM
- OR-12-42 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon) Portland General Electric in house drawing, 3/1/1927 SECTION (LEFT), ELEVATION (TOP RIGHT) AND PLAN (BOTTOM RIGHT) OF BOILER #13 [BUILDING L4]
- OR-12-43 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon)
  Contractor/draftsman unknown, c.1927
  GENERAL LAYOUT OF TURBINES 1-5 (BOTTOM) [BUILDING L1],
  BOILERS 1-13 (MIDDLE) [BUILDINGS L2 AND L4] AND LINCOLN SUBSTATION (TOP) [BUILDING L3]
- OR-12-44 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon)
  Contractor/draftsman unknown, 1931
  SECTIONAL ELEVATION OF COMBINATION OIL AND HOGFUEL HIGH PRESSURE BOILER #14 [BUILDING L4]
- OR-12-45 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon)
  Contractor/ draftsman unknown, 1931
  SECTIONAL PLAN OF COMBINATION OIL AND HOGFUEL HIGH PRESSURE BOILER #14 [BUILDING L4]

Portland General Electric Company: Station "L" HAER No. OR-12 (Page 6) Index to Photographs

- OR-12-46 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon)
  Portland General Electric in house drawing, 1937
  PIPING ARRANGEMENT OF BOILER #16 [BUILDING L8] SHOWN IN ELEVATION (LEFT), PLAN (TOP RIGHT) AND ELEVATION (BOTTOM RIGHT)
- OR-12-47 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon)

  Portland General Electric in house drawing, Feb 1950

  A LINE DIAGRAM OF HOW THE OIL SYSTEM FUELS THE VARIOUS BOILERS AT STATION "L"
- OR-12-48 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon) Portland General Electric in house drawing, 1929 DRAWINGS OF THE OIL HOLDING TANKS AT STATION "L"
- OR-12-49 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon)

  Portland General Electric in house drawings, 1930

  FLOW DIAGRAM OF THE STEAM GENERATION PROCESS AT STATION
  "L"
- OR-12-50 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon)
  Contractor/ draftsman unknown, c.1930
  THE TYPICAL COMPONENTS OF A STEAM GENERATED TURBINE SET
- OR-12-51 Photocopy of diagram (from Station "L" office files, Portland, Oregon)
  General Electric Company pamphlet, c.1923
  SECTIONAL ARRANGEMENT OF THE 6,000 KW TURBINE GENERATOR
  [BUILDING L1]
- OR-12-52 Photocopy of scale drawing (from Station "L" office files, Portland, Oregon) Portland General Electric in house drawing, 1930 PLAN OF THE TURBINE ROOM [BUILDING L1] SHOWING THE ARRANGEMENT OF TURBINE UNITS 1-4
- OR-12-53 Photocopy of diagram (from Station "L" office files, Portland, Oregon)

  General Electric Company pamphlet, c.1925

  SECTIONAL ELEVATION OF THE 20,000 KW GENERATOR [BUILDING L1]

Portland General Electric Company: Station "L HAER No. OR-12 (Page 7) Index to Photographs

- OR-12-54 Photocopy of diagram (from Station "L" office files, Portland, Oregon)
  General Electric Company pamphlet, c.1930
  SECTIONAL ELEVATION OF THE 35,000 KW GENERATOR [BUILDING L5]
- OR-12-55 Photocopy of scale diagram (from Station "L" office files, Portland, Oregon) Portland General Electric in house drawing, 1926 PLAN DEPICTING THE LOCATION OF THE CONDENSATE UNITS [BUILDING L1]
- OR-12-56 Photocopy of drawing (from a development package arranged for the Station "L" site)
  SERA Architects, 1985
  SITE PLAN OF STATION "L" WITH BUILDINGS LABELED
- OR-12-57 Photocopy of drawing (from a development package arranged for the Station "L" site)
  SERA Architects, 1985
  SITE PLAN OF STATION "L" AND THE SURROUNDING AREA